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PTO/SB/01 (12-97)

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☒ Declaration Submitted with Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	IN01155K
First Named Inventor	VENKATRAMAN, et al
COMPLETE IF KNOWN	
Application Number	/
Filing Date	April 17, 2001
Group Art Unit	To Be Assigned
Examiner Name	To Be Assigned

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MACROCYCLIC NS-3 SERINE PROTEASE INHIBITORS OF HEPATITIS C VIRUS
COMPRISING ALKYL AND ARYL ALANINE P2 MOIETIES**

the specification of which (Title of the invention)

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(e) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/198,204	4/19/2000	

[Page 1 of 2]

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

Typed or printed name			
Signature		Date	

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Date April 17, 2001

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number **24265** OR ☐ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.


Direct all correspondence to: ☒ Customer Number or Bar Code Label **24265** OR ☐ Correspondence address below

Name	PALAIYUR S. KALYANARAMAN Reg. No. 34634				
Address					
Address					
City		State		ZIP	
Country		Telephone	(908) 298 5068	Fax	(908) 298-5388

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
SRIKANTH	VENKATRAMAN

Inventor's Signature	Date
	15 Mar 01

Residence: City	WOODBRIDGE	State	NJ	Country	U.S.A.	Citizenship	INDIA
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Post Office Address	35 ROANOKE STREET
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Post Office Address	
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City	WOODBRIDGE	State	NJ	ZIP	07095	Country	U.S.A.
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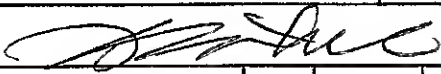
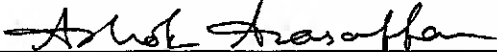

☒ Additional inventors are being named on the **3** supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 3

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
KEVIN X.				CHEN			
Inventor's Signature						Date	3/15/01
Residence: City	ISELIN	State	NJ	Country	U.S.A.	Citizenship	U.S.A.
Post Office Address 44 GILL LANE, APT. 1D							
Post Office Address							
City	ISELIN	State	NJ	ZIP	08830	Country	U.S.A.
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
ASHOK				ARASAPPAN			
Inventor's Signature						Date	03/15/01
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Post Office Address							
City	BRIDGEWATER	State	NJ	ZIP	08807	Country	U.S.A.
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
F. GEORGE				NJOROGE			
Inventor's Signature						Date	03/15/01
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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VIYYOOR M.				GIRIJAVALLABHAN			
Inventor's Signature						Date	3/15/01
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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TIN-YAU				CHAN			
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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BRIAN A.				MC KITTRICK			
Inventor's Signature						Date	3/14/01
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City	BLOOMFIELD	State	N.J.	ZIP	07003	Country	U.S.A.

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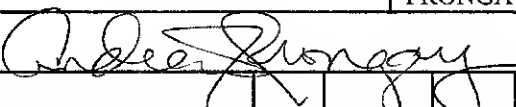
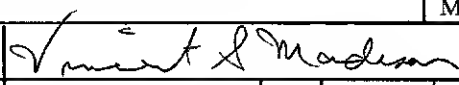
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 3 of 3

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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ANDREW J.				PRONGAY			
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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Inventor's Signature						Date	3-15-01
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Post Office Address							
City	MOUNTAIN LAKES	State	N.J.	ZIP	07046	Country	U.S.A.
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
Inventor's Signature						Date	
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		ZIP		Country	

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PATENT APPLICATION COVER SHEET

**MACROCYCLIC NS-3 SERINE PROTEASE INHIBITORS OF HEPATITIS C
VIRUS COMPRISING ALKYL AND ARYL ALANINE P2 MOIETIES**

INVENTORS:

SRIKANTH VENKATRAMAN, a citizen of India, residing at 6 Tulip Drive, #3H,
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F. GEORGE NJOROGÉ, a citizen of Kenya, residing at 2597 Juliet Place,
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VIYYOOR MOOPIL GIRIJAVALLABHAN, a citizen of the United States,
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ANDREW JOSEPH PRONGAY, a citizen of the United States, residing at 104
Willow Grove Road, Stewartsville, New Jersey 08886.

VINCENT STEWART MADISON, a citizen of the United States, residing at 12
Ronarm Drive, Mountain Lakes, New Jersey 07046.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged vertically. Each histogram shows the frequency of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is 'Number of non-zero elements' with major ticks at 0, 20, 40, 60, 80, and 100. The y-axis is 'Frequency' with major ticks at 0, 2, 4, 6, 8, and 10. The histograms are for $n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12$ respectively. As n increases, the distribution of non-zero elements shifts to the right, indicating a higher number of non-zero elements in the vector x .

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged vertically. Each histogram shows the frequency of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is 'Number of non-zero elements' with major ticks at 0, 20, 40, 60, 80, and 100. The y-axis is 'Frequency' with major ticks at 0, 2, 4, 6, 8, and 10. The histograms are for $n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12$ respectively. As n increases, the distribution of non-zero elements shifts to the right, indicating a higher number of non-zero elements in the vector x .

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